

IMMUNE RESPONSES
USING COMPOSITIONS CONTAINING STRESS PROTEINS

ABSTRACT

5 The present invention relates to a vaccine for
inducing an immune response to an antigen in a vertebrate
(e.g., mammal) comprising an antigen and all or a portion
of a stress protein or all or a portion of a protein having
an amino acid sequence sufficiently homologous to the amino
10 acid sequence of the stress protein to induce the immune
response against the antigen. In a particular embodiment,
the present invention relates to vaccines and compositions
which induce a CTL response in a mammal comprising an
antigen and all or a portion of a stress protein. In
15 another embodiment, the invention relates to vaccines and
compositions which induce an immune response to an
influenza virus in a mammal comprising an antigen of the
influenza virus and all or a portion of one or more stress
proteins. The invention also relates to vaccines and
20 compositions for inducing a CTL response to a tumor-
associated antigen comprising a tumor-associated antigen
and all or a portion of the stress protein. The invention
also relates to vaccines and composition for suppressing
allergic immune responses to allergens comprising an
25 allergen and all or a portion of a stress protein.